



Robbins & Myers Fans
1929

Robbins & Myers

ELECTRIC FANS

FOR

ALTERNATING AND DIRECT CURRENT CIRCUITS
NON-OSCILLATING, OSCILLATING,
CEILING AND VENTILATING FANS



DOMESTIC CATALOGUE No. 1400

1929

ROBBINS & MYERS, Inc.

Main Office and Factory

SPRINGFIELD, OHIO, U. S. A.

NOTE—For list of Repair Parts, see Fan Parts Catalogue No. 1284 and Supplements, Nos. 1341 and 1393.



*The greatest factor in health, happiness, and long life
is the stimulation of fresh, pure air.*

Merit—The Backbone of Success

MERIT is that particular quality inherent in man or merchandise, idea or substance, which brings complete and satisfactory fulfillment of purpose. It is the final manifestation of genuine value and usefulness.

In the manufactured product, merit satisfies need, reveals a benefit to buyers, assures economy and durability, and enables the product to deliver service equal to, even beyond, expectations.

Merit makes reputation and friends, wins approval and acceptance. It is the foundation of all advertising and selling—all business progress. It is the very backbone of success.

Over thirty years' usage by the buying public has paid a remarkable tribute to the *merit* of R & M Electric Fans.

Efficient service, durability, economy of current consumption, smooth, quiet operation, light weight construction, and a pronounced beauty in design and a lustrous texture to the finish, have popularized R & M Fans with consumers and firmly established their superiority.

Principles are responsible for these results—*principles* of mechanical precision and quality materials—along with modern practices, manufacturing care and intelligence, progressive engineering, and high grade workmanship.

In the building of Electric Fans of superlative merit, Robbins & Myers are pioneers. The thread of substantial goodness that ran through the first line built in 1897 can be clearly traced through the product of every succeeding year.

Improvements have come with engineering progress and new styles have evolved. But every change has been weighed on the scale of *merit* before being endorsed and passed on as a betterment.

For 1929 the line conforms to its traditional standard and reflects its adherence to those principles which have always been the foundation of its quality.

In designing R & M Fans, the needs of fan users have been paramount. As usual an unconditional guarantee bespeaks our confidence in our work.

In selling the 1929 line, your efforts are supplemented by ours as expressed in national advertising and in a new and original line of displays and helps.

The pages that follow present the complete line for 1929.

Domestic Branch Offices:

NEW YORK.....	200 Varick St.
PHILADELPHIA.....	232-4 N. 15th St.
CLEVELAND.....	1387 West 9th St.
CHICAGO.....	567 E. Illinois St.
DALLAS.....	2d Unit, Santa Fe Bldg.
ST. LOUIS.....	1922-1926 Chestnut St.
SAN FRANCISCO.....	Rialto Bldg.
ATLANTA.....	

Canadian Factory and Office:

THE ROBBINS & MYERS COMPANY OF CANADA, LIMITED,
BRANTFORD, ONTARIO

Factory Cable Address:

"STANDARD"
SPRINGFIELD, OHIO

Export Office:

30 Church St., Room 425-E, New York City

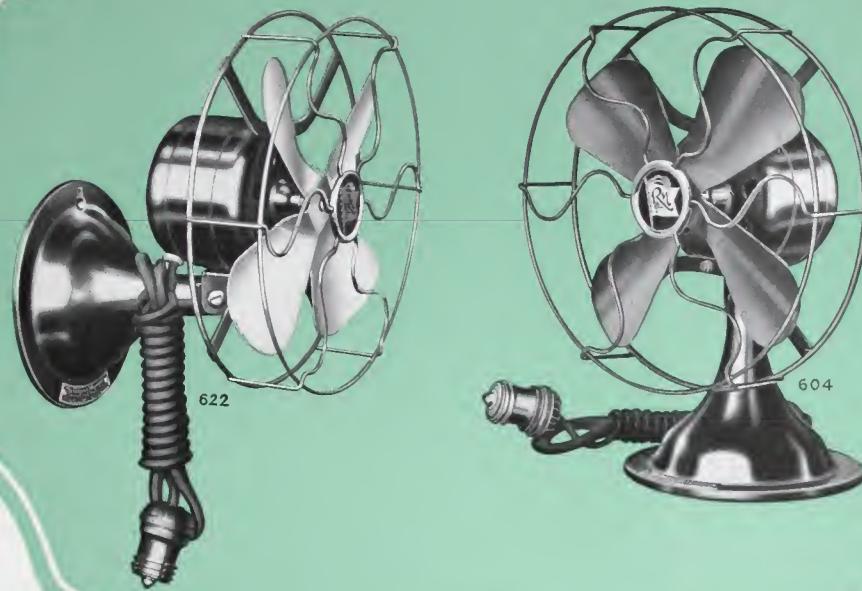
CABLE ADDRESS

"MOTORFAN," NEW YORK CITY

Codes Used: Liebers, A. B. C. 5th Edition,
Western Union,
New Business, Bentley's, Private.

Agencies in Principal Cities of the United States
and Foreign Countries





8-In. Alternating Current Non-Oscillating Fan

MODEL 50

*Single Speed Switch; Four Blades; Drawn Steel Motor Frame;
Induction Type*

MODEL 50 A. C. Fan is very attractive in appearance, unusually cool and quiet in performance, and offered at popular prices. Its induction motor is of an efficient shaded pole type, drawn steel frame and mounted on cast iron base having felt strip on bottom of flange.

Single-speed toggle switch is mounted on the rear head.

The fan is equipped with hinge joint having wing screw for vertical adjustment and mounting in wall

bracket position.

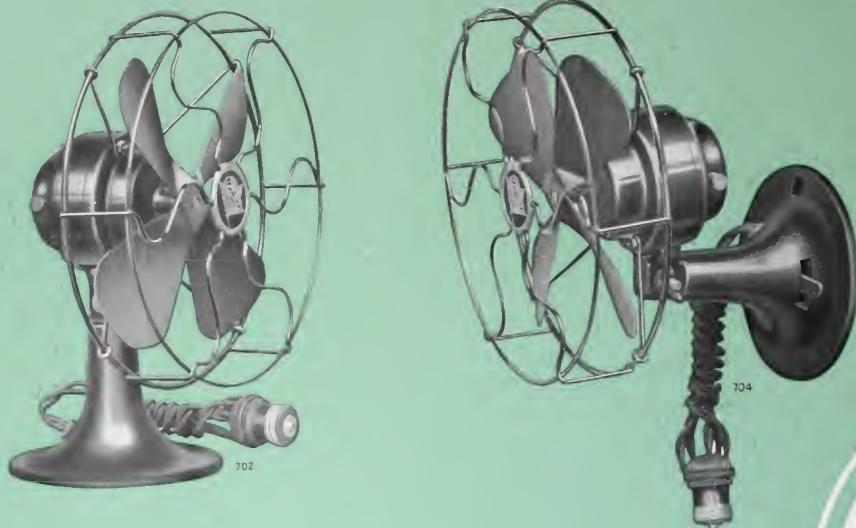
Finished in semi-gloss baked black enamel; steel blades, satin black.

This fan is undoubtedly the highest construction of 8-inch fans on the market and, although low priced, should not be confused with the many cheaply constructed small size fans now on the market built to sell at a price rather than to render reliable service. It is a real fan of standard R & M quality.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.	WATTS	RETAIL PRICE†
5002	110	50 Cycles, A. C.	1320	30	\$6.50
5004	110	60 Cycles, A. C.	1550	26	6.50

Cord and plug included with each fan.

†Prices for far western points are slightly higher.



8-In. Alternating-Direct Current Non-Oscillating Fan

MODEL 55

*Single Speed Switch; Four Blades; Drawn Steel Motor Frame;
Series Type; Universal Motor*

MODEL 55 is an entirely new series commutating type Fan. Its motor has drawn steel frame mounted on cast iron base having felt strip on bottom of flange.

The motor having universal winding, the fan is suitable for operation on alternating or direct current 110 volt circuits. The speeds and watts given are approximate.

The fan has good appearance, splendid operating characteristics and is popularly priced.

Furnished regularly with single speed switch mounted in the base.

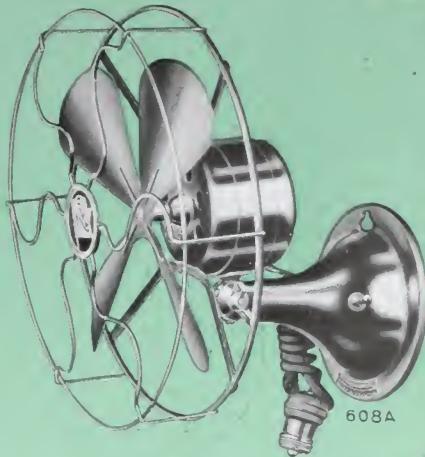
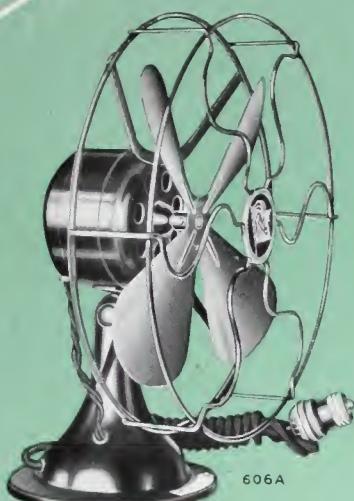
Equipped with hinge joint having wing screw for vertical adjustment and mounting in wall bracket position.

Finished in semi-gloss baked black enamel; steel blades, satin black.

LIST NO	VOLTS	CIRCUITS ON WHICH FAN WILL OPERATE	SPEEDS R. P. M.						WATTS	RETAIL PRICE†
			50 Cy.	60 Cy.	D. C.	50 Cy.	60 Cy.	D. C.		
5500	110	25 to 60 Cycles, A. C. Direct Current	1650	1600	2000	31	29	36	86	\$6.50

Cord and plug included with each fan.

†Prices for far western points are slightly higher.



10-In. Alternating Current Non-Oscillating Fan

MODEL 51

*Single Speed Switch; Four Blades; Drawn Steel Motor Frame;
Induction Type*

MODEL 51 A. C. Fan, like the Model 50, is very attractive in appearance, unusually cool and quiet in performance, and offered at a popular price. Its induction motor is of an efficient shaded pole type, drawn steel frame and mounted on cast iron base having felt strip on bottom of flange.

Single-speed toggle switch is mounted in the base.

Being equipped with swivel-hinge joint having wing screw adjustment, the fan may be readily mounted in wall bracket position and fixed by the wing screw to

any angle vertically or horizontally for blowing the breeze in the direction desired.

The fan is especially suited for mounting on the walls up out of the way in hospitals and hotel sleeping rooms where quiet operation and just about the amount of breeze which a fan of this size produces and control of its direction are desired.

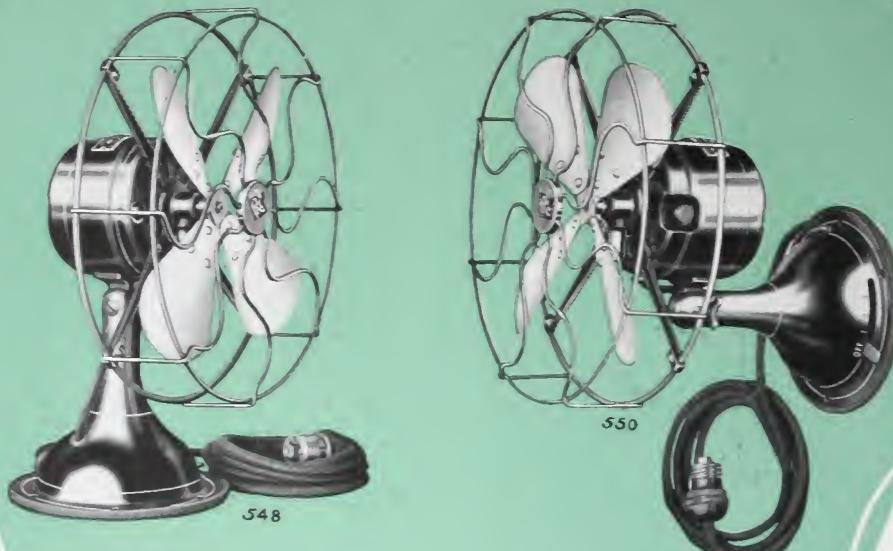
Finished in semi-gloss baked black enamel; steel blades, satin black.

The blades and guard are interchangeable with those of the 10-inch Model 46 Oscillating Fan.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.	WATTS	RETAIL PRICE†
5102	110	50 Cycles, A. C.	1200	33	\$10.00
5104	110	60 Cycles, A. C.	1300	31	10.00

Eight-foot cord and plug included with each fan.

†Prices for far western points are slightly higher.



10-in. Alternating and Direct Current Non-Oscillating Fans

MODEL 43

*Three Speeds; Four Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, Series Type for Other Circuits*

MODEL 43, 10-inch Non-Oscillating Fan is of the same high character construction throughout as the Model 42, 10-inch Oscillating and likewise economical in current consumption.

It is very attractive in appearance and particularly suitable for small offices, living rooms and sleeping rooms where constant breeze in a given direction is desired and long, continuous operation without thought

of bother or inconvenience from trouble.

A vigorous breeze, or reduced by means of the three-speed switch in the base, is available at will.

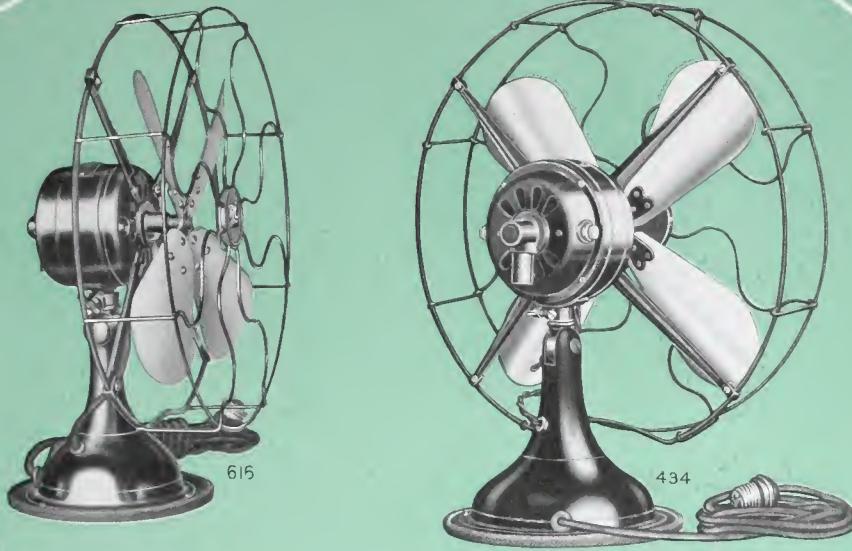
Hinge joint for vertical adjustment and mounting in wall bracket position. Felt covered base.

Highly finished in semi-gloss baked black enamel; brass blades, lacquered.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
4353	100-120	25-30 Cycles, A. C.	1560	1300	1100	25	24	23	\$14.50
4310	110	50 Cycles, A. C.	1350	1250	1150	30	22	17	13.50
4312	110	60 Cycles, A. C.	1560	1300	1100	28	19	17	13.50
4313	220	60 Cycles, A. C.	1560	1300	1100	28	19	17	15.00
4350	110	Direct Current	1625	1400	1100	25	21	18	13.50
4352	220	Direct Current	1625	1400	1100	30	28	27	15.00

Eight-foot cord and plug included with each fan.
Model 43 will be discontinued when present stocks are exhausted.

†Prices for far western points are slightly higher.



12-in. Alternating and Direct Current Non-Oscillating Fans

MODELS 47 and 22

*Three Speeds; Four Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, Series Type for Other Circuits*

THESE Fans are strong breeze producers as 12-inch fans and made to last indefinitely without trouble or attention except occasional refilling of the wick oil cups.

The swivel-hinge joint provides for wall bracket

mounting and convenient adjustment vertically or horizontally.

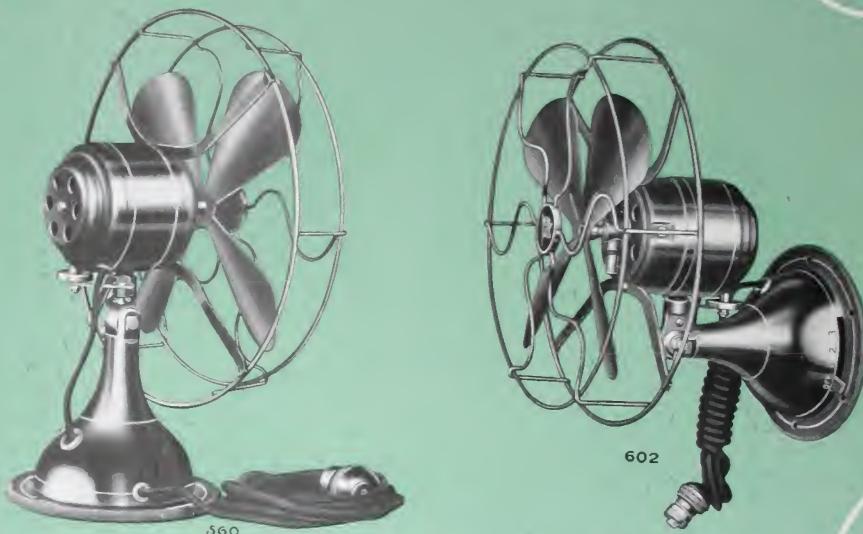
Four-point, three-speed switch. Felt covered base.

Highly finished in semi-gloss baked black enamel; brass blades, lacquered.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
4700C	100-120	25-30 Cycles, A. C.	1550	1300	1100	45	40	38	\$24.00
4702C	110	50 Cycles, A. C.	1300	1200	1100	42	31	26	23.00
4704C	110	60 Cycles, A. C.	1500	1300	1100	44	35	30	23.00
4705C	220	60 Cycles, A. C.	1500	1300	1100	44	35	30	24.50
2203	110	Direct Current	1550	1300	1100	44	38	34	23.00
2204	220	Direct Current	1550	1300	1100	44	38	34	24.50

Eight-foot cord and plug included with each fan.

†Prices for far western points are slightly higher.



10-in. Alternating Current and Universal Oscillating Fans

MODEL 46

*Three Speeds; Four Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, and Series Type Universal for 100-120 Volts*

MODEL 46 is very attractive in appearance, quiet in operation and remarkably low in wattage consumption.

The induction fan has an efficient motor of shaded pole type; the universal fan No. 4650 has series motor suitable for use on any 100-120 volt direct or alternating current circuit and any frequency 25 to 60 cycles, as well as speed control by means of the regulating switch.

The gear mechanism is integral with the rear head bracket and fully enclosed within a removable end cover.

Some improvements have been introduced into the

oscillating mechanism, thus providing for change in list numbers from the original.

It has a single oscillating sweep making $5\frac{1}{2}$ complete oscillations per minute over 75 degrees.

The fan can be made non-oscillating by setting the outer end of the connecting rod and crank pin to the center of the propeller plate.

Three speeds. Felt covered base. Hinge joint for vertical adjustment and wall mounting.

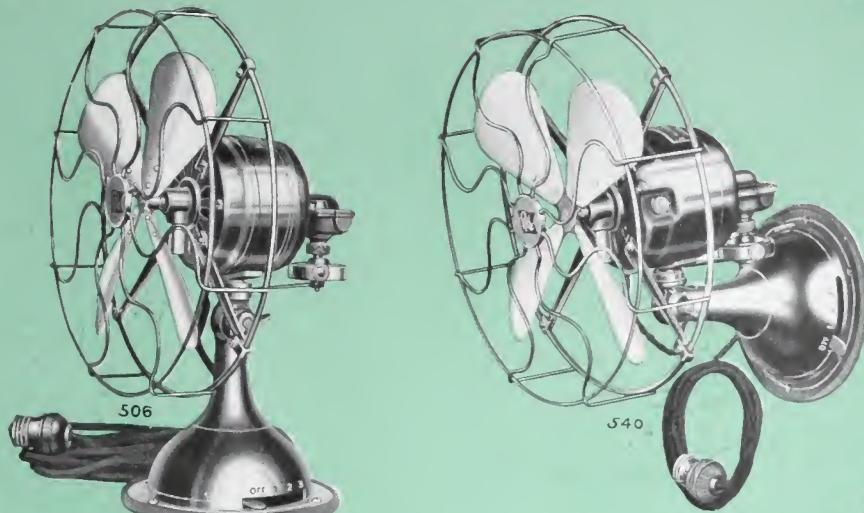
Highly finished in semi-gloss baked black enamel; steel blades, satin back.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
4600	110	50 Cycles, A. C.	1350	1250	1150	33	24	20	\$15.50
4612	110	60 Cycles, A. C.	1500	1400	1250	33	28	25	15.50
4613	220	60 Cycles, A. C.	1500	1400	1250	33	28	25	17.00
4650	110	25 to 60 Cycles, A. C. Direct Current	1650 2050	1300 1600	1100 1400	36 51	32 42	27 37	15.00

Speeds and watts of List 4650 on A. C. are for 60 cycles. Speeds and watts vary some on the other frequencies.

Eight-foot cord and plug included with each fan.

†Prices for far western points are slightly higher.



10-in. Alternating and Direct Current Oscillating Fans

MODEL 42

*Three Speeds; Four Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, Series Type for Other Circuits*

MODEL 42 is unusually high in efficiency, cool and quiet and smooth in operation and is endowed with all the refinements and high class characteristics for which R & M fans have always been renowned.

Undoubtedly the best quality fan ever produced below 12-inch size.

Equipped with the oscillating mechanism having the

exclusive adjusting feature. (Patented.)

Seven complete oscillations per minute; full sweep 95 degrees.

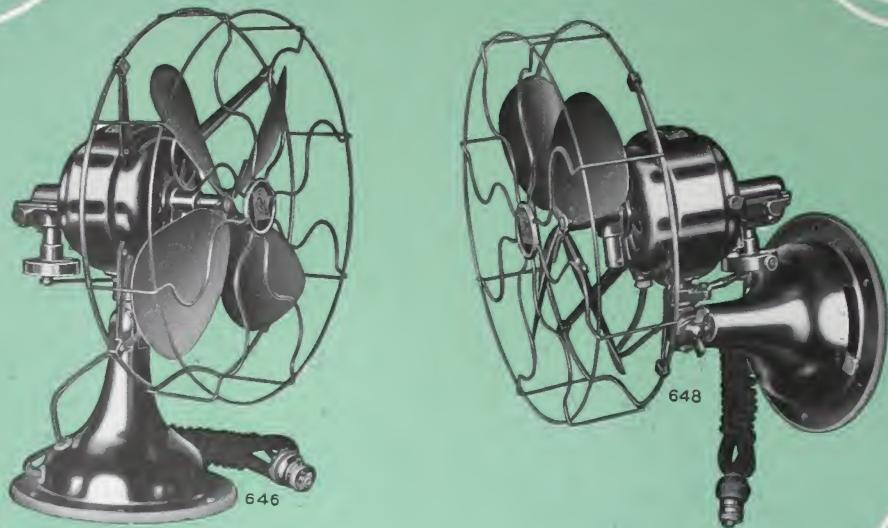
Four-point, three-speed switch. Felt covered base. Hinge joint for vertical adjustment and wall mounting.

Highly finished in semi-gloss baked black enamel; brass blades, lacquered.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
4253	100-120	25-30 Cycles, A. C.	1550	1300	1100	26	25	24	\$18.50
4210	110	50 Cycles, A. C.	1350	1250	1150	31	22	17	17.50
4212	110	60 Cycles, A. C.	1550	1300	1100	28	20	17	17.50
4213	220	60 Cycles, A. C.	1550	1300	1100	28	20	17	19.00
4250	110	Direct Current	1600	1300	1100	26	22	21	17.50
4252	220	Direct Current	1600	1400	1100	31	28	27	19.00

Eight-foot cord and plug included with each fan.
Model 42 will be discontinued when present stocks are exhausted.

†Prices for far western points are slightly higher.



12-In. Alternating and Direct Current Oscillating Fans

MODEL 52

*Three Speeds; Four Aluminum Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, Series Type for Other Circuits*

MODEL 52 Slow Speed Oscillating Fan is of the same staunch mechanical construction throughout as the 16-inch Slow Speed Oscillating Fan, Model 53, and with all the principal parts being interchangeable, including the gear mechanism.

The fan is exceptionally quiet in operation, powerful, efficient, cool running and effective in air displacement.

The blades are of heavy gauge aluminum, with large area and steep pitch. The motor has special windings for slow speed operation.

The oscillating mechanism has the exclusive adjusting

device (patented) that has been featured on our 12- and 16-inch fans during the past five years and having a reputation of unequalled performance and long life.

Five complete oscillations per minute; full sweep 95 degrees.

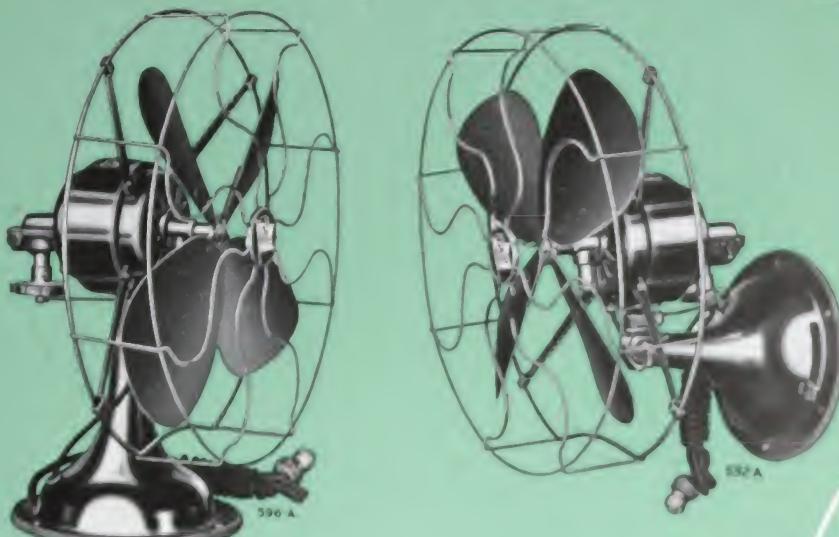
Four-point, three-speed switch. Felt covered base. Hinge joint for vertical adjustment and wall mounting, with clamping plate that engages notched surface of joint, holding the fan fixed in the position desired.

Highly finished in semi-gloss baked black enamel; aluminum blades, satin black.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
5200	100-120	25-30 Cycles, A. C.	1100	900	700	39	35	32	\$31.00
5202	110	50 Cycles, A. C.	900	775	675	39	25	22	30.00
5204	110	60 Cycles, A. C.	1050	925	800	44	33	28	30.00
5205	220	60 Cycles, A. C.	1050	925	800	44	33	28	31.50
5251	110	Direct Current	1100	900	700	34	28	24	30.00
5252	220	Direct Current	1100	900	700	35	29	25	31.50

Fans with brass blades, lacquered, furnished optional on special orders, Factory shipment, at listed prices

Eight-foot cord and plug included with each fan.
†Prices for far western points are slightly higher.



16-in. Alternating and Direct Current Oscillating Fans

*Three Speeds; Four Aluminum Blades; Drawn Steel Frame; Induction Type
For 50 and 60 Cycles, Series Type for Other Circuits*

THE 16-inch Slow Speed Oscillating Fans are the same in general construction and appearance as the former High Speed Oscillators which have been so popular for a great many years, except having special windings and blades of larger area and steeper pitch, and operating at slower speeds as indicated in the following table.

The fans are exceptionally cool running, powerful, efficient, quiet in operation and effective in air displacement.

The blades are of heavy gauge aluminum and free from vibration.

The gear mechanism has been practically standard on these fans for a great many years and been enjoying a reputation of unequalled performance and long life. The mechanism is equipped with the exclusive adjusting feature (patented).

Five complete oscillations per minute, full sweep 95 degrees.

Four-point, three-speed switch. Felt covered base. Hinge joint for vertical adjustment and wall mounting.

Highly finished in semi-gloss baked black enamel; aluminum blades, satin black.

MODEL	LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.				WATTS	NET SELLING PRICE
				1	2	3	4		
38	3879A	110	60 Cycles, A. C.	1000	880	780	81	75	61
39	3976A	110	Direct Current	1025	850	750	65	55	48
53	5300	100-120	25-30 Cycles, A. C.	1025	850	750	72	70	61
53	5302	110	50 Cycles, A. C.	900	800	700	80	60	55
53	5304	110	60 Cycles, A. C.	1000	880	780	85	75	61
53	5305	220	60 Cycles, A. C.	1000	880	780	81	75	61
53	5351	110	Direct Current	1025	850	750	65	55	48
53	5352	220	Direct Current	1025	850	750	68	58	48

Models 38 and 39 will be discontinued when present stocks are exhausted, being superseded by Model 53.

Exaggerated cost and plug included with each fan.
Prices for far western points are slightly higher.

12-In. and 16-In. Ventilating Fans

Alternating and Direct Current; Six Blades; Drawn Steel Frame; Fully Enclosed Motor



Alternating Current



Direct Current

THE ventilating fans illustrated have drawn steel motor frames similar to those used on the 12-inch and 16-inch desk type fans. This construction lightens the fans considerably in comparison with the cast iron motor construction type furnished in years gone by. The windings develop excellent speed with very low wattage.

These fans are intended for mounting in walls or partitions and exhausting into open space (free air). The bearings are all provided with hardened steel end thrust washers, thus making the fans suitable for vertical operation, upward or downward discharge.

The motor and fan blades are mounted in a rigid support as shown in the illustration. The outfit is complete and ready to fasten to the wall or ceiling wherever the necessary opening is provided.

The motors are fully enclosed, thus making them practically dust and moisture proof, and

affording protection against grease, grit, acids or other substances which might prove injurious to the windings or commutator. The fans remove all the fumes and odors which might be distasteful, or injurious to the health, and draw in a constant supply of fresh air.

When working against free air the 12-inch fan will displace approximately 1000 cubic feet of air per minute, the 16-inch fan will displace 1550 cubic feet. When working against back pressure or other obstruction to free air, the displacement will, of course, be reduced.

DIMENSIONS: 12-inch size—diameter of fan blades, 12 inches; diameter of ring, inside, 13 $\frac{1}{4}$ inches; outside, 16 inches. 16-inch size—diameter of fan blades, 16 inches; diameter of ring, inside, 17 $\frac{1}{4}$ inches; outside, 20 inches.

FINISH: The motor and supporting ring are finished in semi-gloss baked black enamel. The fan blades are of brass, polished and lacquered.

Alternating and Direct Current Ventilating Fans

Six Blades; Drawn Steel Frame; Fully Enclosed Motor; Induction Type For 50 and 60 Cycles; Series Type for Other Circuits

12-INCH

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	FULL SPEED FREE AIR	WATTS CONSUMED	RETAIL PRICE†
4050	100-120	25-30 Cycles, A. C.	1500	55	\$27.00
4052	110	50 Cycles, A. C.	1375	51	25.00
4054	110	60 Cycles, A. C.	1550	54	25.00
4055	220	60 Cycles, A. C.	1550	54	27.00
4001	110	Direct Current	1550	55	25.00
4002	220	Direct Current	1550	55	27.00

16-INCH

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	FULL SPEED FREE AIR	WATTS CONSUMED	RETAIL PRICE†
4075	100-120	25-30 Cycles, A. C.	1500	85	\$29.00
4077	110	50 Cycles, A. C.	1320	93	27.00
4079	110	60 Cycles, A. C.	1450	86	27.00
4080	220	60 Cycles, A. C.	1450	86	29.00
4026	110	Direct Current	1500	75	27.00
*2961	220	Direct Current	1450	110	29.00
4027	220	Direct Current	1500	75	29.00

*Will be discontinued when present stocks are exhausted. In addition to the voltages listed in the table, fans can be supplied for any special voltages required, on order.

The bearings of these Ventilating Fans are all provided

with hardened steel end-thrust washers, thus making the fans suitable for vertical operation, upward or downward discharge.

†Prices for far western points are slightly higher.

Wall Regulator

FOR VENTILATING AND CEILING FANS

*Three-Speed Wall Regulator for A. C. 12" and 16" Ventilating Fans, Any Circuit
\$5.00; D. C. Any Voltage, \$4.50. Same Prices for Ceiling Fans*

SINCE ventilating fans are usually installed in inaccessible places on the wall or ceiling, it is desirable to provide a means for starting and stopping the fans or regulating their speed, from a convenient point away from the fans. For this purpose we supply a wall regulator which gives two speeds below full speed as well as serving to start and stop the fan.

The regulator is not supplied unless ordered specially and is not required unless this form of control is desired, as any of the fans can be started directly from the line.



The average speed reduction obtained with the regulator is 250 revolutions per minute below full speed on the first reduction and 500 revolutions per minute below full speed on the second reduction.

When ordering separately state size of fan and voltage and cycles alternating current, or voltage direct current, for which the regulator is intended.

For Ceiling Fans. This wall regulator can also be furnished on special order for ceiling fans not having switch equipment. It gives the same speed reductions as are obtained with the switch and regulating coil that are usually furnished on the fans.



36-in. New Type Alternating Current Ceiling Fan STYLE "R"

ILLUSTRATION 526-A is of Fan with two-speed pull switch and four wooden blades of 36-inch diameter sweep.

The Style "R" is a new fan in respect to certain mechanical qualities and performance characteristics. It retains the good appearance and best mechanical features of its predecessors, while embodying improvements which entirely eliminate noise and oil leakage.

The fan is symmetrical in design and of pleasing appearance.

This fan is especially suited for hotel bedrooms, small offices and doorway entrances, its performance being intended to meet the great majority demand.

Regular switch equipment is the two-speed pull type and regulating coil. The switch is attached directly to the oil cup within a projecting housing which is also attached by two screws to the oil cup. The regulating coil is mounted on top of the motor and covered with a

removable canopy. Both the switch and regulating coil are readily accessible and easily removed.

Regular blade equipment consists of four wooden blades which may be readily reversed on the fan to direct the breeze toward the ceiling which is often desired. This is an exclusive feature on R&M A. C. ceiling fans (patented).

Standard finish is a durable and attractive semi-gloss baked black enamel. Blades, selected grade of hardwood in polished mahogany finish.

Quotation upon application for special finish.

Fan is furnished from factory on special orders with four curved aluminum blades for blowing the air downward only; speed and air delivery practically the same as obtained with the wooden blades; standard finish of aluminum blades, satin back.

Prices in the following table apply to fan as illustrated and described above.

LIST NO.	VOLTS	CIRCUITS ON WHICH FAN WILL OPERATE	SP. C. S. E. P. M.	WATTS	RETAIL PRICE?	
5704	110	50 Cycles, A. C.	350	275	60	\$40.00
5704	110	60 Cycles, A. C.	350	275	60	\$40.00
5705	120	60 Cycles, A. C.	350	275	60	\$41.00

The fan is regularly supplied with ceiling canopy, wood screw base and insulating bangle, but without bangle pipe. Three-quarter inch iron pipe or conduit is required for this fan.

For aluminum blades, add \$1.00 extra.

Refer to page 13 for switch application on top of canopy, or omission of switch and regulating coil.

Refer to pages 41 and 51 for particulars and prices of bangle pipe and base bangle.

Prices for fan without canopy are slightly higher.

Refer to page 51 for particulars and prices of special voltages and frequencies.



36-in. New Type Alternating Current Ceiling Fan STYLE "R"

ILLUSTRATION 522-A is of the Fan with 36-inch diameter sweep wooden blades and lighting unit attachment fitted with 4-inch heavy gauge spun brass safety type globe holder and medium base lamp receptacle and showing 9-inch globe, suitable for Mazda C lamps of 100 watts or less. Fan and light controlled from wall switches.

The lighting unit is attached directly to the oil cup in place of the regular switch and switch-housing with the same screws which attach the switch-housing.

A 10-inch globe may also be readily used.

The holder is suitable for any make globe having a 4-inch neck.

This outfit can also be furnished with speed regulating coil and with two-speed switch neatly mounted on top of the motor for the purpose of setting the speed of the fan according to the temperature of the weather, the fan being

started and stopped from wall switch; or instead of switch and speed coil on fan, a separate two-speed wall regulator can be furnished for controlling the fan.

ILLUSTRATION 520-A is of the fan with 36-inch diameter sweep wooden blades and lighting unit attachment similar to illustration 522-A, but with the addition of two single pull switches mounted in the holder—one for light control, the other for fan control, fan single speed.

This outfit can also be furnished in two other combinations, viz.: with one single pull switch for light control, fan single speed controlled from wall switch, or with one single pull switch for fan control, fan single speed, light controlled from wall switch.

The switches are mounted in the globe holder.



36-in. New Type Alternating Current Ceiling Fan STYLE "R"

Note description on page 17

The Fan with Lighting Unit Attachment as illustrated and described will be furnished on special orders, Factory shipment, in any one of the following combinations:

FAN WITH UNIT NO.	STYLE "R" FAN, 110 VOLTS, WITH LIGHTING UNIT ATTACHED TO FAN, STANDARD FINISH, WITHOUT HANGER PIPE	RETAIL PRICE OF FAN WITH UNIT
1-a	4-inch Globe holder with receptacle, without switches, Fan single speed, Fan and Light controlled from wall switches.....	\$39.50
2-a	4-inch Globe holder with receptacle, with 2-speed switch mounted at top of Fan motor for speed setting,* Fan and Light controlled from wall switches	42.00
3-a	4-inch Globe holder with receptacle, with single pull switch mounted in the holder for Light control, Fan single speed controlled from wall switch.....	41.00
4-a	4-inch Globe holder with receptacle, with single pull switch mounted in the holder for Fan control, Fan single speed, Light controlled from wall switch	41.00
5-a	4-inch Globe holder with receptacle, with two single pull switches mounted in the holder—one for Light control, the other for Fan control, Fan single speed.....	42.00

*Fan equipped with regulating coil.
Necessary wiring is included with the above.
For 220 volts, add \$2.00 Retail.
For aluminum blades, add \$1.00 Retail.
For Wall Regulator, note price page 15.

When ordering, use list No. of Fan in table page 16 and Lighting Unit No. as selected from above table.

Particulars in foot notes below table page 16 apply to above table.
Glassware not included in the above prices. All standard glassware is adaptable.



52-in. New Type Alternating Current Ceiling Fan STYLE "S"

ILLUSTRATION 706 is of Fan with three-speed pull switch and four wooden blades of 32-inch diameter.

In the new Style "S" we have a fan of high efficiency, splendid performance and wonderful mechanical construction, being built for long years of service without trouble.

While retaining the best features of the previous types, certain improvements have been introduced which entirely eliminate noise and oil leakage.

The fan is rather plain but graceful and pleasing in design in every particular.

This fan is especially suited for office, living and dining rooms, large bedrooms, as well as regular store equipment and other places where ceiling fans of this character are desired.

The regular switch equipment is the three-speed pull type and regulating coil. The switch is attached directly

to the coil cup and protected by a separate switch housing which is also attached to easy access to the coil cap. The switch may be readily improved or removed.

The regulating coil, being mounted on top of the motor and covered with a removable cover, is readily accessible and easily removed.

The blades may be readily reversed on the fan to direct the current toward the ceiling, which is often desired. This is an exclusive feature on RADM A. C. ceiling fans patented.

Standard finish is a durable and attractive semi-gloss baked black enamel. Blades selected grade of hardwood or polished mahogany wood.

Quotations upon application for special finish.

Fan is furnished from factory on special orders with four wooden blades of 32-inch diameter sweep.

Prices on the following table apply to the 32-inch fan as illustrated and described above.

LIST NO.	VOLTS	CIRCUIT ON WHICH FAN WILL OPERATE	SPEEDS R. P. M.	WATTS	AMPS.	PRICE
5802	110	30 Cycles, A. C.	645	175	1.00	\$48.00
5804	110	60 Cycles, A. C.	123	175	1.00	\$48.00
5805	110	60 Cycles, A. C.	123	175	1.00	\$48.00

The fan is regularly supplied with cooling current, wood screw base and insulating bangle, but without support pipe. Disengagement with base pipe or similar is required for this fan.

For 32-inch diameter sweep, add \$2.00 Extra.

Refer to page 31 for switch application on top of motor, or omission of switch and regulating coil.

Refer to pages 18 and 19 for quotations and prices of longer pipes and various bases.

Prices for the wooden bases are slightly higher.

Refer to page 31 for quotations and prices of special ratings and capacities.



52-in. New Type Alternating Current Ceiling Fan STYLE "N"

ILLUSTRATION 710 is of the Fan with 52-inch diameter sweep wooden blades and lighting arm attachment fixed with 4-inch heavy gauge brass base safety type globe holder and medium base lamp receptacle and glowing rough globe, suitable for Mazda C lamps of one watt or less. Fan and light controlled from wall switch.

The lighting arm is attached directly to the oil cup in place of the regular switch and retaining screw with the same screws which attach the wooden blades.

A glass globe may also be readily and securely fits over the medium base lamp.

The holder is suitable for any make globe having a flange neck.

This entire set may also be furnished with speed regulating only and with three-speed switch mounted on top of the motor for the purpose of raising the speed of the fan according to the temperature of the room, the fan being started and stopped from wall switch, or on

speed of sweep and speed and on fan, a separate three-speed wall regulator can be furnished for controlling the fan.

ILLUSTRATION 710 is of the fan with 52-inch diameter sweep wooden blades and lighting arm attachment similar to illustration 710 but with the addition of two pull switches mounted on the blades—one single pull for light control, the other connected in connection with regulating and fan control. On a single speed pull switch the fan can run without regulating and can be furnished if preferred to the three-speed switch.

The switch can also be furnished in other combinations, viz. with one single pull switch for light control, fan single speed controlled from wall switch, or with one single pull switch for fan control, fan single speed, light controlled from wall switch, or with regulating and three-speed pull switch for fan control, light controlled from wall switch.

The switches are mounted in the globe holder.



52-in. New Type Alternating Current Ceiling Fan STYLE "S"

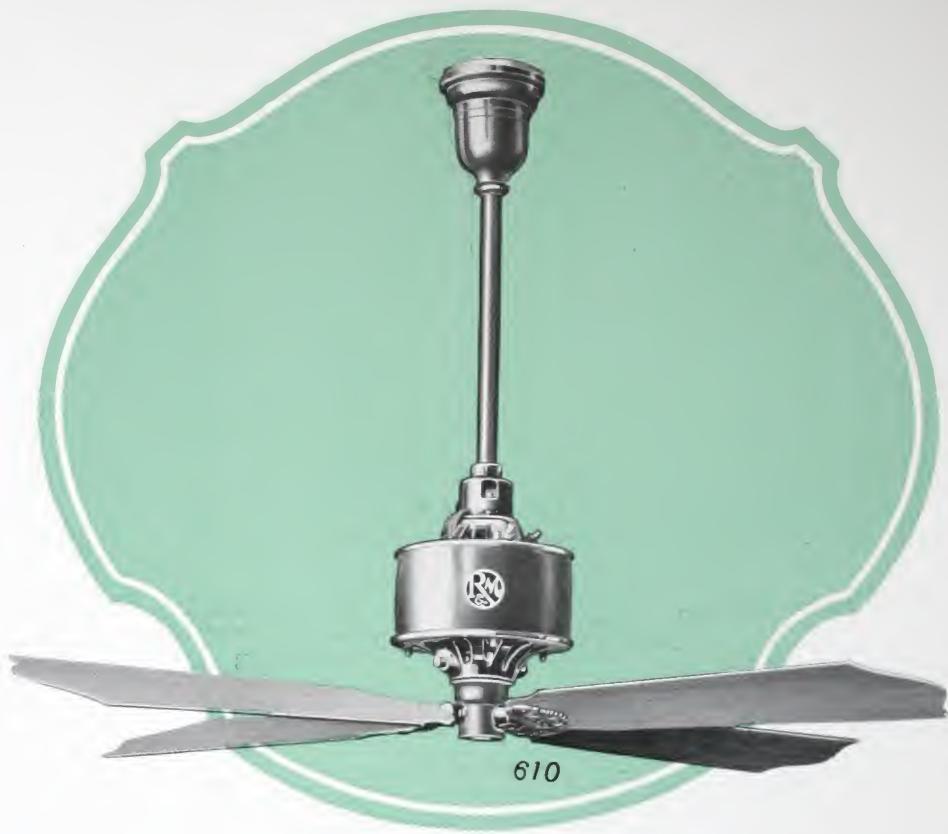
Note description on opposite page

The Fan with Lighting Unit Attachment as illustrated and described will be furnished on special orders, Factory shipment, in any one of the following combinations:

FAN WITH UNIT NO.	STYLE "S" FAN, 110 VOLTS, WITH LIGHTING UNIT ATTACHED TO FAN, STANDARD FINISH, WITHOUT HANGER PIPE	RETAIL PRICE OF FAN WITH UNIT
1-a	6-inch Globe holder with receptacle, without switches, Fan single speed, Fan and Light controlled from wall switches.....	\$47.50
2-a	6-inch Globe holder with receptacle, with 3-speed switch mounted on top of Fan motor for speed setting,* Fan and Light controlled from wall switches	50.50
3-a	6-inch Globe holder with receptacle, with single pull switch mounted in the holder for Light control, Fan single speed controlled from wall switch	49.00
4-a	6-inch Globe holder with receptacle, with single pull switch mounted in the holder for Fan control, Fan single speed, Light controlled from wall switch	49.00
4-b	6-inch Globe holder with receptacle, with 2-speed pull switch mounted in the holder for Fan control,* Light controlled from wall switch.....	51.00
5-a	6-inch Globe holder with receptacle, with two single pull switches mounted in the holder—one for Light control, the other for Fan control, Fan single speed.....	50.00
5-b	6-inch Globe holder with receptacle, with two pull switches mounted in the holder—one single pull for Light control, the other two-speed for Fan control*.....	52.00

*Fan equipped with regulating coil.
Necessary wiring is included with the above.
For 220 volts, add \$2.00 Retail.
For 56-inch diameter sweep Fan, add \$2.00 Retail.
For Wall Regulator, note price page 15.

When ordering, use list No. of fan in table page 19 and Lighting Unit No. as selected from above table.
Particulars in foot notes below table page 19 apply to above table.
Glassware not included in the above prices. All standard glassware is adaptable.



54-in. Direct Current Ceiling Fan

STYLE "M"

ILLUSTRATION 610 is of the Fan with three-speed key switch and four wooden blades of 54-inch diameter sweep.

The Style "M" is constructed after the same substantial manner for durability as other Robbins & Myers products. The fan is very pleasing in appearance, light in weight and highly efficient in performance. The motor is of the bi-polar type similar to the former Style "B." Many parts of both fans are interchangeable.

The regular switch equipment is the three-speed key type and regulating coil. The switch is fitted in a casing on top of the motor with its key stem extending through

the hollow shaft and terminating at the bottom of the fan, where its knob is protected by a cylindrical housing.

The regular blade equipment consists of four wooden blades which may be readily reversed on the fan to direct the breeze toward the ceiling, which is often desired.

Standard finish is a durable and attractive semi-gloss baked black enamel; blades, selected grade of hardwood in polished mahogany.

Quotation upon application for special finish.

Prices in the following table apply to fan as illustrated and described above.

LIST NO.	VOLTS	CIRCUITS ON WHICH FAN WILL OPERATE	SPEEDS R. P. M.			WATTS			RETAIL PRICE†
			1	2	3	1	2	3	
4802	110	Direct Current	230	180	135	116	85	65	\$48.00
4803	220	Direct Current	230	170	135	122	90	70	50.00

The fan is regularly supplied with ceiling canopy, wood screw hook and insulating hanger, but without hanger pipe. Three-quarter inch iron pipe or conduit is required for this fan.

Refer to page 31 for switch application on top of motor, or omission of switch and regulating coil.

Refer to pages 28 and 31 for particulars and prices of hanger pipes and fixture hanger.

†Prices for far western points are slightly higher.

Refer to page 31 for particulars and prices of special voltages and frequencies.



54-in. Direct Current Ceiling Fan

STYLE "M"

ILLUSTRATION 668 is of the Fan with 54-inch diameter sweep wooden blades and lighting unit attachment fitted with 6-inch heavy gauge spun brass safety type globe holder adapter and medium base lamp receptacle, and showing 14-inch globe, suitable for Mardi C lamps of 200 watts or less. Fan and light controlled from wall switches.

A 16-inch globe may also be readily used satisfactorily for 300 watt medium base lamp.

The lighting unit is attached to 2 1/2-inch diameter stationary tube (having 1/2-inch-12 thread) which is fixed in the top of the motor and extends through the hollow shaft and blade carrier, in place of the regular switch and switch key. The light wires are carried down through the tube.

The holder is suitable for any make globe having a 6-inch neck.

This outfit can also be furnished with speed regulating coil and with three-speed switch neatly mounted on top plate of motor for the purpose of setting the speed of the fan according to the temperature of the weather, the fan being

started and stopped from wall switch; or instead of switch and speed coil on fan, a separate three-speed wall regulator can be furnished for controlling the fan.

ILLUSTRATION 669 is of the fan with 54-inch diameter sweep wooden blades and lighting unit attachment similar to illustration 668, but with the addition of two pull switches mounted on the holder—one single pull for light control, the other two-speed in connection with regulating coil for fan control. Or a single speed pull switch for fan control without regulating coil can be furnished if preferred to the two-speed switch.

This outfit can also be furnished in three other combinations, viz: with one single pull switch for light control, fan single speed controlled from wall switch, or with one single pull switch for fan control, fan single speed, light controlled from wall switch, or with regulating coil and two-speed pull switch for fan control, light controlled from wall switch.

The switches are mounted in the globe holder.



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54-in. Direct Current Ceiling Fan STYLE "M"

Note description on page 23

The Fan with Lighting Unit Attachment as illustrated and described will be furnished on special orders, Factory shipment, in any one of the following combinations:

FAN WITH UNIT NO.	STYLE "M" FAN, 110 VOLTS, WITH LIGHTING UNIT ATTACHED TO FAN, STANDARD FINISH, WITHOUT HANGER PIPE	RETAIL PRICE OF FAN WITH UNIT
1-a	6-inch Globe holder attachment complete, without switches, Fan single speed, Fan and Light controlled from wall switches	\$49.50
2-a	6-inch Globe holder attachment complete, with 3-speed switch mounted on top of Fan motor for speed setting,* Fan and Light controlled from wall switches	\$2.50
3-a	6-inch Globe holder attachment complete, with single pull switch mounted in the holder for Light control, Fan single speed controlled from wall switch	\$1.50
4-a	6-inch Globe holder attachment complete, with single pull switch mounted in the holder for Fan control, Fan single speed, Light controlled from wall switch	\$1.50
4-b	6-inch Globe holder attachment complete, with 2-speed pull switch mounted in the holder for Fan control,* Light controlled from wall switch	\$1.50
5-a	6-inch Globe holder attachment complete, with two single pull switches mounted in the holder—one for Light control, the other for Fan control, Fan single speed	\$4.00
5-b	6-inch Globe holder attachment complete, with two pull switches mounted in the holder—one single pull for Light control, the other 2-speed for Fan control*	\$3.50
		56.00

*Fan equipped with regulating coil.
Necessary wiring is included with the above.
For 220 volts, add \$2.00 Retail.
For Wall Regulator, note price page 15.

When ordering, use List No. of fan in table page 22 and Lighting Unit No. as selected from above table.
Particulars in foot notes below table page 22 apply to above table.
Glassware not included in the above prices. All standard glassware is adaptable.



36-in. Direct Current Ceiling Fan STYLE "J"

ILLUSTRATION 532 is of the Fan with two-speed pendant switch and four wooden blades of 36-inch diameter sweep.

The Style "J" fan has been furnished during the past thirteen years mostly for special installation jobs of important quantities, especially for hotel sleeping rooms.

The motor is of the bi-polar type and of very substantial construction in every particular.

The bearings are exceptionally large and the commutator is of deep section hard drawn copper bar with mica insulation between the bars, like the Style "M."

The regular switch equipment is the two-speed pendant type and regulating coil.

The regular blade equipment consists of four wooden blades which may be readily reversed on the fan to direct the breeze toward the ceiling, which is often desired.

Standard finish is a durable and attractive semi-gloss baked black enamel; blades, selected grade of hardwood in polished mahogany.

Quotation upon application for special finish.

The Style "J" fan is not regularly stocked but furnished on special orders, factory shipment. Samples will be furnished upon application.

Prices in the following table apply to fan as illustrated and described above.

LIST NO.	VOLTS	CIRCUITS ON WHICH FANS WILL OPERATE	SPEEDS R. P. M.		WATTS		RETAIL PRICE†
			1	2	1	2	
4451	110	Direct Current	350	250	75	50	\$40.00
4452	220	Direct Current	350	250	75	50	42.00

The fan as regularly supplied includes ceiling canopy, wood screw hook and insulating hanger, but no hanger pipe. Three-quarter inch iron pipe or conduit is required for this fan.

Refer to page 31 for switch application on top of motor, or omission of switch and regulating coil.

Refer to pages 28 and 31 for particulars and prices of hanger pipes and fixture hanger.

†Prices for far western points are slightly higher.

Refer to page 31 for particulars and prices of special voltages and frequencies.



36-in. Direct Current Ceiling Fan STYLE "J"

ILLUSTRATION 664 is of the Fan with 36-inch diameter sweep wooden blades and lighting unit attachment fitted with 4-inch heavy gauge spun brass safety type globe holder, adapter and medium base lamp receptacle, and showing 9-inch globe, suitable for Mazda C lamps of 100 watts or less. Fan and light controlled from wall switches.

A 10-inch globe may also be readily used.

The lighting unit is attached to 3 1/8-inch diameter stationary tube (having 3 1/8-inch-32 thread) which is fixed in the top of the motor and extends through the hollow shaft and blade carrier, in place of the regular switch. The light wires are carried down through the tube.

The holder is suitable for any make globe having a 4-inch neck.

This outfit can also be furnished with speed regulating coil and with two-speed switch neatly mounted on top plate of motor for the

purpose of setting the speed of the fan according to the temperature of the weather, the fan being started and stopped from wall switch; or instead of switch and speed coil on fan, a separate two-speed wall regulator can be furnished for controlling the fan.

ILLUSTRATION 666 is of the fan with 36-inch diameter sweep wooden blades and lighting unit attachment similar to illustration 664, but with the addition of two single pull switches mounted in the holder—one for light control, the other for fan control, fan single speed.

This outfit can also be furnished in two other combinations, viz: with one single pull switch for light control, fan single speed controlled from wall switch; or with one single pull switch for fan control, fan single speed, light controlled from wall switch.

The switches are mounted in the globe holder.



36-in. Direct Current Ceiling Fan

STYLE "J"

Note description on opposite page

The Fan with Lighting Unit Attachment as illustrated and described will be furnished on special orders, Factory shipment, in any one of the following combinations:

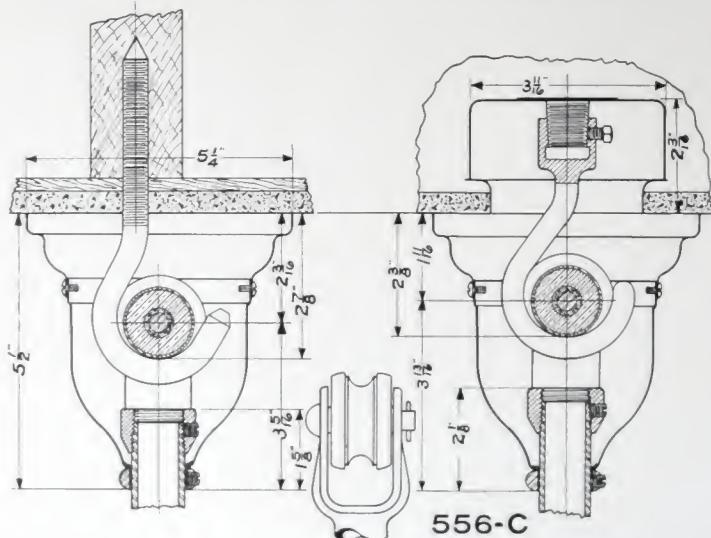
FAN WITH UNIT NO.	STYLE "J" FAN, 110 VOLTS, WITH LIGHTING UNIT ATTACHED TO FAN. STANDARD FINISH, WITHOUT HANGER PIPE	RETAIL PRICE OF FAN WITH UNIT
1-a	4-inch Globe holder attachment complete, without switches, Fan single speed, Fan and Light controlled from wall switches	\$42.00
2-a	4-inch Globe holder attachment complete, with 2-speed switch mounted on top of Fan motor for speed setting. * Fan and Light controlled from wall switches	44.50
3-a	4-inch Globe holder attachment complete, with single pull switch mounted in the holder for Light control, Fan single speed controlled from wall switch	44.00
4-a	4-inch Globe holder attachment complete, with single pull switch mounted in the holder for Fan control, Fan single speed, Light controlled from wall switch	44.00
5-a	4-inch Globe holder attachment complete, with two single pull switches mounted in the holder—one for Light control, the other for Fan control, Fan single speed	46.00

*Fan equipped with regulating coil
Necessary wiring is included with the above
For 220 volts, add \$2.00 Retail
For Wall Regulator, note price page 15

When ordering, use list No. of fan in table page 25 and Lighting Unit No. as selected from above table.
Particulars in foot notes below table page 25 apply to above table.
Glassware not included in the above prices. All standard glassware is adaptable.

Suspension Specifications

Alternating and Direct Current Ceiling Fans



Outline and Dimensions of Two-Piece Canopy and Hanger for All Ceiling Fans

Canopy. The outline illustration shows two-piece telescoped type of canopy, the upper section of which may be readily slipped down over the lower section which offers a great convenience for hanging the fan on a low ceiling where a short hanger pipe or nipple is required.

Hook. The outline at the left shows the screw type of hook which is regularly furnished with the fans. The outline at the right shows the socket type of hook for conduit or fixture stud connection which is furnished on special order instead of the regular wood screw hook.

Insulating Hanger. Two types of insulating hangers are furnished according to hanger pipe employed, viz:

Insulating hanger drilled and tapped to receive regular $3/4$ -inch pipe, the canopy being fixed to the pipe.

Insulating hanger drilled and tapped to receive $3/8$ -inch pipe, the canopy being fixed to the insulating hanger which has elongated socket for that purpose. This hanger is used in connection with all fans employing the adjustable hanger pipe.



Sectional View of Adjustable Hanger Pipe for Any Ceiling Fan

Hanger Pipes. Illustration 554 shows construction of adjustable hanger pipe, consisting of $3/8$ -inch pipe telescoped within $3/4$ -inch pipe. Two substantial screws set at an angle in the coupling to fix the $3/8$ -inch pipe to the position desired give ample assurance of security when set up tight. A stop-collar is attached to the lower end of the $3/8$ -inch pipe.

It is important that the upper pipe is screwed the correct distance into the insulating hanger and the lower pipe the correct distance into the socket on top of the motor, and that all set screws are set up tight.

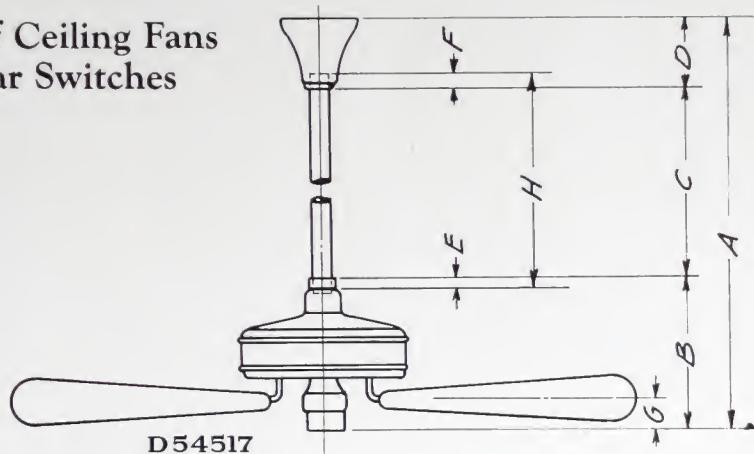
When properly installed the hanger and suspension will support at least ten times the weight of the fan.

Adjustable Hanger Pipes—Adjustment Range

- No. 1, adjustment range $15\frac{3}{4}$ inches, suitable for ceilings $10\frac{1}{2}$ to 12 feet high
- No. 2, adjustment range $3\frac{3}{4}$ inches, suitable for ceilings 12 to 15 feet high
- No. 3, adjustment range $5\frac{1}{2}$ inches, suitable for ceilings $13\frac{1}{2}$ to 18 feet high

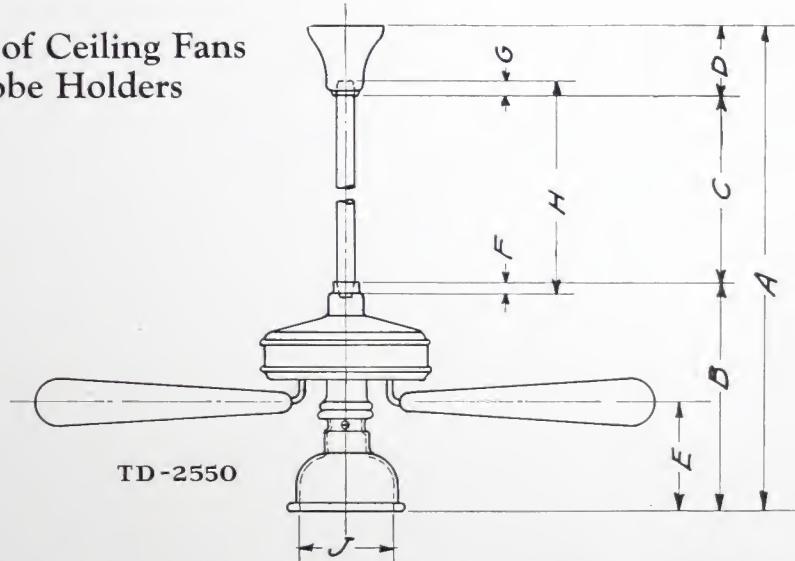
Range of adjustment of each hanger pipe provides distances of approximately 7 feet 9 inches from floor to bottom of blades.

Dimensions of Ceiling Fans with Regular Switches



STYLE	A	B	C	D	E	F	G	H
J	5 1"	10 3/4"	34 3/8"	5 7/8"	5 8"	1"	3/4"	36"
L	50 3/8"	10 1/8"	34 3/8"	5 7/8"	5 8"	1"	2 5/8"	36"
M	54 3/16"	13 15/16"	34 3/8"	5 7/8"	5 8"	1"	1 5/16"	36"
N	50 3/8"	10 1/2"	34 3/8"	5 7/8"	5 8"	1"	2 7/16"	36"
O	51 5/16"	10 13/16"	34 3/8"	5 7/8"	5 8"	1"	3"	36"
R	51 5/16"	11 1/16"	34 3/8"	5 7/8"	5 8"	1"	3 3/8"	36"
S	50 1/2"	10 1/4"	34 3/8"	5 7/8"	5 8"	1"	3 15/16"	36"

Dimensions of Ceiling Fans with Globe Holders



STYLE	A	B	C	D	E	F	G	H	J
J	5 5"	14 3/4"	34 3/8"	5 7/8"	4 5/8"	5 8"	1"	36"	4"
L	51 1/2"	11 1/4"	34 3/8"	5 7/8"	3 7/16"	5 8"	1"	36"	4"
M	58 9/16"	18 5/16"	34 3/8"	5 7/8"	5 11/16"	5 8"	1"	36"	6"
N	52 1/16"	11 13/16"	34 3/8"	5 7/8"	3 3/4"	5 8"	1"	36"	6"
O	51 1/2"	11 1/4"	34 3/8"	5 7/8"	3 7/16"	5 8"	1"	36"	4"
R	51 3/4"	11 1/2"	34 3/8"	5 7/8"	3 13/16"	5 8"	1"	36"	4"
S	51 13/16"	11 9/16"	34 3/8"	5 7/8"	5 1/4"	5 8"	1"	36"	6"

9-inch globes having approximate depth of six inches below lower edge of the globe holder, are recommended for the Styles "J" and "R" Fans.

14-inch globes having approximate depth of eight inches below lower edge of the globe holder, are recommended for the Styles "M" and "S" Fans.

Blade Application

ILLUSTRATION 718 shows the R & M exclusive blade reversing feature of the A. C. ceiling fans as listed.

The view is of two blades mounted in the "down" position on the flange of the rotor spider. The four blades so mounted blow the air downward. When mounted in the "up" position they blow the air towards the ceiling.

Holes are drilled and tapped on both sets of the angular surfaces and a change of the blade mounting can be made on the fan in a few minutes with a screw driver.

Either mounting gives a true position of blade angle.

The blades of the D. C. ceiling fans may also be readily reversed for blowing the air towards the ceiling.

Each blade shank has two center drilled spots



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for receiving the point of the set screw—the one for down position and the other for up position of the blade.

The change of position may be made with a small wrench or pliers.

Particular care should be taken that all blades are set to the same position. The screws should be set up tight.

Lighting Unit Attachment

ILLUSTRATION 686 shows two views of the globe holder with receptacle as specially made for convenient fitting to R & M A. C. ceiling fans.

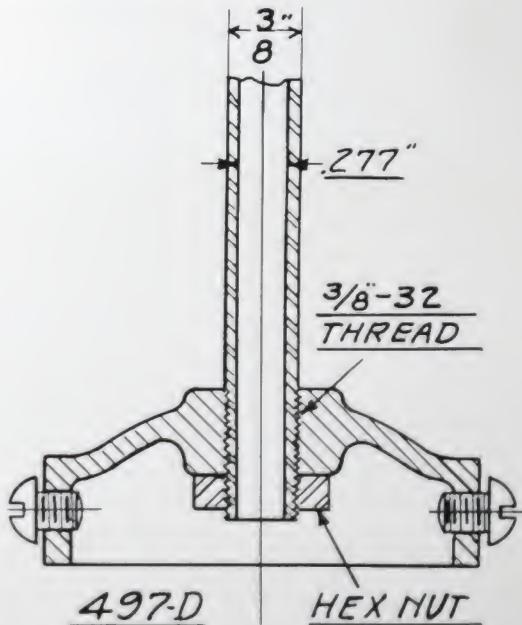
The holder is made of heavy gauge spun brass and of the safety type. The globes may be readily removed for cleaning.

The view at left also shows two pull switches mounted in the holder—one two-speed for fan control, the other single pull for light control.

The view at right is without switches and shows the two knock-outs for switch mountings when desired.

The 4" and 6" holders are similar in construction.

The lighting unit as illustrated is attached directly to the oil cup at the bottom of the fan in place of the regular switch and switch-housing with the same screws which attach the switch-housing.



Drawing 497-D shows the adapter in full size as attached to the lower end of the tube which is fixed in the top of the motor of the D. C. ceiling fans and extends through the hollow shaft and blade carrier, in place of the regular switch and switch key. The units of illustration 686 attach to the adapter.

Price List of Specials

Add to Retail Price of Fan, except as noted

Wall Regulator for Ceiling Fans. Three-speed Wall Regulator for A. C. ceiling fans, any circuit, \$5.00; D. C. ceiling fans, any voltage, \$4.50. Illustration 638, page 15.

Socket Type Ceiling Hook. Hook with socket suitable for $\frac{3}{8}$ -inch, $\frac{1}{2}$ -inch or $\frac{3}{4}$ -inch conduit or fixture stud connection instead of the regular wood screw hook, \$0.30 extra. Orders for 100 at a time, no extra charge.

Hanger Pipes for any Ceiling Fan. Regular 3-foot piece of $\frac{3}{4}$ -inch pipe suitable for 12-foot ceiling, \$1.50.

Different length piece $\frac{3}{4}$ -inch pipe, than 3-foot piece, \$0.60 per foot or fraction thereof.

Orders for 100 or more pieces, $\frac{3}{4}$ -inch pipe, cut to any length desired, \$0.35 per foot or fraction thereof.

No. 1 adjustable, \$2.00. No. 2 adjustable, \$5.00. No. 3 adjustable, \$8.00.

All hanger pipes are threaded at both ends and finished in accordance with the rest of the fan.

Insulating hanger suitable for hanger pipe employed is furnished with each fan.

Switch on Top of Motor of Ceiling Fans. Fans will be furnished from Factory on special quantity orders with switch mounted on top of motor for speed setting, as described, at the regular price of fan as listed with switch at bottom.

Omission of Switch and Regulator from Ceiling Fans. Fans will be furnished from Factory on special quantity orders without switch and regulating coil, at an allowance of \$1.00 for omission of switch and \$1.00 for omission of regulating coil, from the retail prices of fans as listed with switch at bottom.

Voltages. For 32-volt or other low voltage fans between 20 and 110 volts made to order, add \$1.00 to prices of 110 volts.

Special voltage between 110 and 220 volts, same price as 220 volts.

For 240 volts (suitable for voltage range 230 to 250), add \$1.00 to prices of 220 volts.

Direct current ceiling fans not furnished for lower than 32 volts.

Finishes. Prices of special finishes vary according to quantities and types of fans and specification of finish. Quotation upon application.

General Specifications and Outstanding Characteristics

Voltage Range. Fans of the following voltage designation will operate satisfactorily over the following voltage range:

Fan Voltage	Circuit	Voltage Range
110	Universal	100 to 120
115	40 Cycles	110 to 120
110	50 and 60 Cycles	104 to 115
220	50 and 60 Cycles	208 to 230
110	Direct Current	100 to 120
220	Direct Current	208 to 230
240	Direct Current	230 to 250

Blades and Speeds. Speeds of R & M fans have been carefully determined after years of experience, and the design of the blades and corresponding speeds give maximum breeze with quiet operation and economy in wattage consumption.

Speeds and watts may vary 10% from those given for nominal voltages and frequencies in the tables.

All ceiling fan blades with shanks of each set furnished with the fan are exactly the same weight and are interchangeable on the fan. The weight is marked in hundredth pounds on the side opposite the shank. Special care should be taken in attaching blades to fans that the set equally matched in weight is used.

Drawn Steel Frames. Frames of heavy gauge sheet steel, stronger and more rigid than cast iron frames; light in weight, easy to handle, smooth surface, take a flawless finish, graceful in shape and pleasing in appearance.

Felt Bases. All non-oscillating and oscillating fans have completely covered felt bases except the 8-inch which have felt strip on bottom of flange.

Oscillating Mechanism. Best bronze and steel used, construction simple and proportions liberal; bearings and gears extremely accurate with minimum of play allowed; smoothness of performance and long life maintained.

Exclusive adjustment feature used on 12-inch and 16-inch fans providing for convenient and positive change to any degree of oscillation from minimum to maximum sweep, or by the same means making the fan non-oscillating. Covered by patent.

Bearings. Bearing bushings made of high grade materials and accurately fitted; shafts accurately ground to gauge, insuring smooth operation and long life for the bearings.

Rotor of all A.C. ceiling fans supported on large high grade ball bearing with specially ground surfaces seated in bottom of oil cup.

General Specifications and Outstanding Characteristics

Lubrication. Provision for easy and positive oiling, with ample capacity of oil cup or reservoir.

Oil drain plug at lower end of oil cup of A.C. ceiling fans may be readily removed with ordinary wrench for oil draining. Should never have to take fan down to change oil.

All joints securely sealed to prevent oil leaking.

Switches. Switch construction in non-oscillating and oscillating fans very substantial in every particular, positive in action, and free from arcing and trouble.

Switches in ceiling fans of high grade standardized types, mounted within protecting housing, readily accessible and easily removed.

Regulating Coils. Substantial in construction, maintaining low temperature, protected from external injury and may be readily removed.

Guards. Of heavy steel, securely anchored to the motors. The strength and rigidity of the guards are such that they provide the means for carrying the fans.

Base. Extended base flange, together with balanced design of entire fan, makes it practically impossible to overturn the fans accidentally. The felt protection permits fans to be placed on highly polished surfaces without danger of marring the finish.

Armatures. Armature core of series type fans built up of steel laminations, mounted securely on shaft. Winding well insulated from core and held in place by fiber wedges. Commutator built up of best grade copper. Commutator segments have extra depth and are insulated by selected grade of soft amber mica which wears evenly with the copper.

Rotor of induction type fans built up of steel laminations; conductors solidly riveted and soldered to end rings; slots skewed to give uniform torque and quiet operation. No centrifugal starting switch or other delicate construction to cause trouble. High starting torque insuring quick positive start with low starting current.

Shafts of high carbon steel ground to gauge at bearing surfaces.

Fields. Field core of series type non-oscillating and oscillating fans built up of steel laminations securely riveted together. Completed core securely attached to frame by screws through the end heads.

Field coils of D.C. ceiling fans mounted on pole pieces and insulated from them. Pole pieces are integral with the frame.

Stator of induction type fans built up of steel laminations securely riveted together. Completed core securely attached to frame by screws through the end heads.

Windings thoroughly insulated from the cores.

Swivel and Trunnion. Adjustment joints of non-oscillating and oscillating fans are accurately fitted to finished surfaces and adjustable by means of wing screws; positive in holding fan fixed in position desired.

Canopy. Canopy of all ceiling fans of two-piece drawn steel telescoped type, offering convenience for hanging fans to low ceilings.

Lighting Unit Attachments. Globeholders of heavy gauge spun brass, safety type, strong and substantial. Globe held tight, will not rattle or work loose. Safety feature permits of quickly attaching or removing the globe. Globe holders are attractive in design, made to our specifications for correct adaptation to R & M fans. Lighting units fit close up to blades, compact and attractive.

All standard glassware is adaptable.

Reversible Blades. Blades of all ceiling fans may be readily reversed on the fan to direct the breeze toward the ceiling when desired.

General Constructions. Choice materials, every part accurately finished and fitted in every particular and inspected during the various processes of manufacture, the finished fan given a long test run with regular blades and again inspected by competent specialists before it is passed to the packing room.

Interchangeability of Parts. Many parts of the different types are interchangeable. This feature has long obtained wherever it has been found practical.

Performance and Efficiency. Self-starting, powerful, uniform in speed, quiet in operation, high in efficiency and low in operating and maintenance cost.

Appearance and Finish. Rather plain with distinctive lines and graceful design, all parts highly polished before the finish is applied and special care used in the application of each coat, maintaining in the finish a lifetime of service—an appealing impression sometimes unconsciously made upon the observer.

General Instructions

PURCHASERS are requested to use the list numbers as given herein, when ordering fans by telegraph or by mail, great care being taken to give the proper number. Only in case the fans required are not listed in the catalogue, is it necessary to give specifications in full.

Purchasers are also requested to give express or freight routing with their order, in the absence of which we shall route shipments with the view of obtaining the best deliveries.

All fans are fully guaranteed to leave the factory free from defective material or workmanship, and should any such defect develop within one year from date of shipment, we will make good the defect free of charge, by repairing the fan or part when returned to us or by shipment of a new part intended to take the place of the part claimed to be defective; but we cannot be responsible for trouble or loss due to causes beyond our control, nor can we assume any responsibility for repairs by outside parties without direct authority.

Fans claimed to be defective or needing repairs, must not be returned until permission to do so has been secured and proper shipping instructions furnished. Application should be made to our nearest branch office for this permission. Compliance with these instructions will

prevent delay and disappointments.

Shipments not properly marked may either be lost or cannot be identified; and we assume no responsibility in connection with such shipments.

Claims for shortage or defects must be made promptly, to insure proper attention.

The packing is done by experienced men, who use the utmost care to insure that the fans shall reach their destination in first-class condition, and as we take receipts from transportation companies for all shipments received in good order, claims for loss or breakage should be made to the transportation company.

The workman installing a fan should read the directions furnished with each fan, and be sure that he thoroughly understands the work before starting.

Every fan should be thoroughly inspected, cleaned and oiled each season by some one who is familiar with the work.

Spare parts are listed in a separate catalogue which will be furnished on request.

In corresponding about a fan, give the type and name plate reading in full, not omitting prefix or suffix letters (if any) to the List, Style or Serial Number.

WEIGHTS IN POUNDS OF ROBBINS & MYERS FANS

TYPE	WEIGHT LBS.		SIZE OF PACKING CASE INCHES
	NET	SHIPPING	
8" Models 50 and 55, Non-Oscillating	6	8	9 ³ / ₄ x 7 ¹ / ₂ x 11 ¹ / ₂
10" Models 51 and 43 Non-Oscillating and Models 46 and 42 Oscillating	8	14	12 ¹ / ₂ x 10 ¹ / ₂ x 15
12" Model 47 Non-Oscillating	10	15	14 ¹ / ₂ x 11 ¹ / ₂ x 16 ¹ / ₄
12" Model 52 Oscillating	18 ¹ / ₂	24	14 ¹ / ₄ x 13 ¹ / ₄ x 18 ¹ / ₂
16" Models 38, 39 and 53 Oscillating	21	32	20 ¹ / ₂ x 12 x 22
36" Style "R" Ceiling	25	33	11 ³ / ₄ x 9 ¹ / ₄ x 13 ¹ / ₄
36" Style "J" Ceiling	27	36	10 ¹ / ₄ x 10 ¹ / ₄ x 20
52" Style "S" Ceiling	48	66	14 ¹ / ₂ x 13 x 16 ¹ / ₄
54" Style "M" Ceiling	56	69	18 ¹ / ₂ x 11 ¹ / ₄ x 11 ¹ / ₄
12" A.C. and D.C. Ventilating	17	20	16 ¹ / ₄ x 16 ¹ / ₄ x 9 ³ / ₄
16" A.C. and D.C. Ventilating	23	30	20 ¹ / ₂ x 20 ¹ / ₂ x 10 ¹ / ₂
Set of Ceiling Fan Blades for Styles "R" and "J" (packed in carton)	2 ¹ / ₂	5 ¹ / ₄	6 ³ / ₄ x 3 ³ / ₄ x 20 ¹ / ₄
Set of Ceiling Fan Blades for Style "S" (packed in carton)	6 ¹ / ₂	11	11 ¹ / ₂ x 3 ³ / ₄ x 29 ³ / ₄
Set of Ceiling Fan Blades for Style "M" (packed in carton)	6 ¹ / ₂	11	11 ¹ / ₂ x 3 ³ / ₄ x 29 ³ / ₄
Wall Regulator for Ventilating Fan	5	8	12 ¹ / ₄ x 7 ¹ / ₂ x 7 ¹ / ₂

All fans except the ceiling fans are packed each complete in one box. The Ceiling Fan motor, hook and canopy are packed together in a substantial box or carton. Blades are packed each set, together

with the insulating hanger, and hanger pipe if furnished, in a separate box or carton.

Telegraphic Code

Quotations

Tang.....Quote discount or net price on.....
 Tangent.....Telegraph at what price and how soon you can ship.....
 Tangible.....We quote you the following discount from list of.....
 Tangle.....We quote you the following net prices.....
 Tank.....Quotation is f. o. b. Springfield, O.
 Tankard.....Quotation is for freight allowed to your city.
 Tanner.....Quotation is for delivery f. o. b. New York.
 Tannic.....Quotation is for New York delivery f. o. b. vessel.
 Tansy.....Quotation is for immediate order.
 Tantalism.....Terms are net, no cash discount allowed.
 Tantalize.....Terms are 30 days net, or less 2 per cent in 10 days.

Orders

Tantalus.....Enter our order for.....
 Tantivy.....Enter our order at prices named.
 Tantrum.....Duplicate our order of.....
 Tapestry.....Add to our order of.....
 Tapioca.....Have sent order.
 Tapis.....Will confirm order by mail.
 Tappent.....Will you accept order?
 Taproot.....Prepare the following for shipment; shipping instructions by mail.
 Tarboosh.....Refer to our Order No. (or dated).
 Tardy.....Hold our order for further instructions.
 Target.....We accept order.
 Targeteer.....Cannot accept your order.
 Targum.....Better telegraph order.
 Tarlatan.....We have not received your Order No. (or dated).

Shipments

Tarse.....Can you ship from stock?
 Tartar.....How soon after receipt of order can you ship?
 Tartarus.....Ship us by express
 Tartness.....Ship by express, charges prepaid, to
 Tartrate.....Ship by express, charges not prepaid, to
 Tassel.....Ship us by freight
 Taste.....Ship by freight, charges prepaid, to
 Tasteless.....Ship by freight, charges not prepaid, to
 Tasty.....C. O. D. and charges
 Tatouay.....Sight draft attached to bill of lading
 Tatter.....Ship us by steamer, via
 Tatting.....Ship to our order
 Tattle.....When will you ship?
 Tattoo.....Prompt shipment will determine order
 Tatug.....Telegraph us immediately if you cannot ship
 Taught.....Customer in great hurry for his order
 Taunt.....Ship immediately or will lose order
 Taurine.....Ship part if you cannot ship all our order at once

Taurus.....You must ship by.....
 Tavern.....Ship immediately our Order No. (or dated)...
 Tawdry.....Hurry shipment of our Order No. (or dated)...
 Tawny.....Have you shipped?
 Teach.....When will you ship our Order No. (or dated)?
 Teaching.....When and how did you ship our Order No. (or dated)?
 Teal.....When will you complete shipment of our order?
 Team.....Start tracer after shipment of.....
 Teamster.....We have mailed check for full amount of order
 Teapot.....We have mailed check for.....dollars
 Tease.....Send draft for balance attached to bill of lading
 Teasel.....Can ship immediately upon receipt of order
 Teat.....If ordered immediately, can ship within.....
 Tebit.....Shall we ship?
 Techily.....Are shipping today
 Technic.....Will ship immediately
 Techy.....We shipped your order (s).....
 Tectonic.....We expect to make shipment by express
 Tedder.....We expect to make shipment by freight
 Tedious.....Will start tracer with shipment
 Tedium.....Will do our best to ship earlier
 Teeter.....We have no unfilled order for you
 Tegular.....Must await your remittance before executing order(s)
 Tegumen.....Before we can ship your order we shall require deposit of.....

Miscellaneous

Temple.....Please answer by telegraph
 Temporal.....We do not understand your telegram; repeat
 Temporize.....Part of your telegram is unintelligible; repeat following words.....
 Tempter.....Your telegram is received. Are writing full particulars today
 Tempress.....Referring to your letter of.....
 Tenable.....Referring to your telegram of.....
 Tenancy.....Refer to our letter of.....
 Tenant.....Refer to our telegram of.....
 Tench.....See our letter of this date.....
 Tender.....Write us, giving us full particulars
 Tendon.....Write us fully by return mail.
 Tendril.....Your letter dated.....
 Tenement.....Am writing fully today
 Tenfold.....Important letter awaiting you at.....
 Tennis.....Get our letter at.....
 Tenor.....Wait for our letter written.....
 Tensil.....Did you get our letter of.....?
 Tensor.....Did you get our telegram of.....?
 Tentative.....Where and when are you going from.....?
 Tenuous.....Draft sent to you at.....
 Tenure.....Have you remitted?
 Teredo.....When will you remit?
 Terete.....Account is past due



The atmosphere of home determines the degree of pleasant livability prevailing in that home. An R & M Fan makes the atmosphere right in any interior at all seasons.

